MFT EVO HP MINERAL 5,0 kg

Compound
MFT
Multi-Flex-Technology

CHARACTERISTICS

MFT EVO HP MINERAL is an innovative range of multi-coating bituminous membranes made with the MFT Multi-Flex Technology, another result of the constant Copernit research, combining in one product the advantages of both APP and SBS membranes.
MFT EVO HP MINERAL technology exceeds the traditional coating processes and gives the possibility to design the bituminous membrane by choosing three different bituminous compounds layers into the same product, depending on the final destination of use and required performances.
MFT EVO HP MINERAL, in fact, is composed by the following three coats:

- Upper face: highly modified bituminous compound with selected poly-olefins and copolymers (APP), giving an oustanding resistance to high temperatures and UV ageing
- Lower face: superior elastomeric compound made of distilled bitumen modified with SBS (Styrene-Butadiene-Styrene) polymers, which ensures extreme elasticity, ease of application and superior bonding and tightness of all joints and overlaps
- Reinforcement impregnation: special modified compound, made on purpose for the best pliability and resistance to mechanical stresses and perforation

MFT EVO HP MINERAL is a membrane range of un-compromising quality, designed for use by professionals for professional applications where the waterproofing layers really must withstand static and dynamic forces as well as severe weathering and adverse climate conditions.

CARRIER

The carrier is a spunbond polyester stabilised with longitudinal glass yarns that combine superior dimensional stability with good tensile strength and elongation values and high mechanical properties in general.

INTENDED USE ACCORDING "CE" MARK STANDARDS

Top layer in multi-layer system for roof waterproofing (EN 13707)	**MFT EVO HP MINERAL** 5,0 kg/m^2

AVAILABLE SURFACE FINISHES

Upper surface	MFT EVO HP MINERAL: self-protection by means of slate flakes available in standard grey or other various colours upon request.
Lower surface	Polypropylene or polyethylene fast burning film. For cold applications by means of adhesive the use of TEX finishing on the lower surface is recommended.

USE & APPLICATION

MFT EVO HP MINERAL 4,5 kg/m^2 is indicated as a cap sheet layer in multi-layer waterproofing systems on flat, pitched or vaulted roofs, made of reinforced concrete cast on site or prefab, of terraces, under-floorings etc.
Subject to the type of substrate it shall be installed by means of a propane gas torch, approved adhesives or by mechanical fixing. In any case it is recommended to prepare substrate with fixative bituminous PRIMER W (water base) or PRIMER S (solvent base).
For cold applications on primed concrete surfaces apply with COPERGLUE BASE bituminous adhesive (over horizontal areas) or COPERGLUE VERTICAL (parapets and elevations). Side laps, head joints and small repairs shall be made with COPERGLUE JOINT. For cold applications over insulation board (Polystyrene, PUR or PIR) apply with COPERMAST bituminous mastic.
For correct installation refer to information provided by Copernit Technical Department.

COPERNIT S.p.A.
Via Provinciale Est, 64 - 46020 Pegognaga (MN) – Italy Tel. +39 0376 554911 Fax +39 0376 550177
www.copernit.it - email: info@copernit.it

Properties	Test Method	Unit	MFT EVO HP MINERAL 5,0 kg	Tol.
Length	EN 1848-1	m	10 (-1%)	≥
Width	EN 1848-1	m	1,0 (-1%)	≥
Unit weight	EN 1849-1	kg/m^2	5,0	±5%
Tensile strength (at break) L/T	EN 12311-1	N/5 cm	600/500	±20%
Elongation (at break) L/T	EN 12311-1	%	35/35	±15
Tear resistance (nail test) L/T	EN 12310-1	N	150/150	±30%
Resistance to static loading	EN 12730 (A)	kg	15	≥
Impact resistance	EN 12691	mm	900	≥
Dimensional stability	EN 1107-1	%	±0,3	≤
Flexibility at low temperature – *upper surface*	EN 1109	°C	-10	≤
Flexibility at low temperature – *lower surface*	EN 1109	°C	-10	≤
Flow resistance at elevated temperature – *upper surface*	EN 1110	°C	130	≥
Flow resistance at elevated temperature – *lower surface*	EN 1110	°C	100	≥
Watertightness (method A)	EN 1928	kPa	60	≥
Resistance to water vapor diffusion (μ)	EN 1931	--	20.000	--
Reaction to fire	EN 13501-1	Class	E	--
Resistance to external fire	EN 13501-5	Class	F roof	--

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